

# CAVITY CONSTRUCTION

Recommend this document is used in conjunction with E2/AS1 and WNZ Guide to E2



## Step 1

cut building wrap @ 45° from each corner



**NB:** These 2 steps ensure only a minimal amount of timber is left exposed at the corners

## Step 2

Staple building wrap at edge of sill trim

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## Step 3

Prepare the corners for sill tapes

### **NB:**

There is no "1" product recommended here

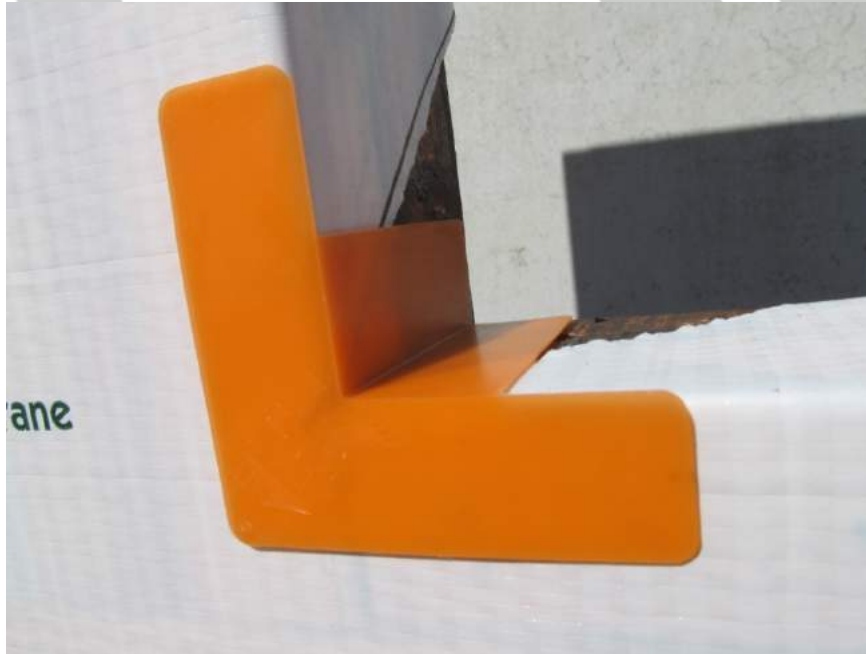
The Thermakraft, Aluband shown, has 2 methods for preparing the sill corners.

Ensure you are familiar with the installation recommendations for the product you are using.

Flexible tapes



Rigid tapes



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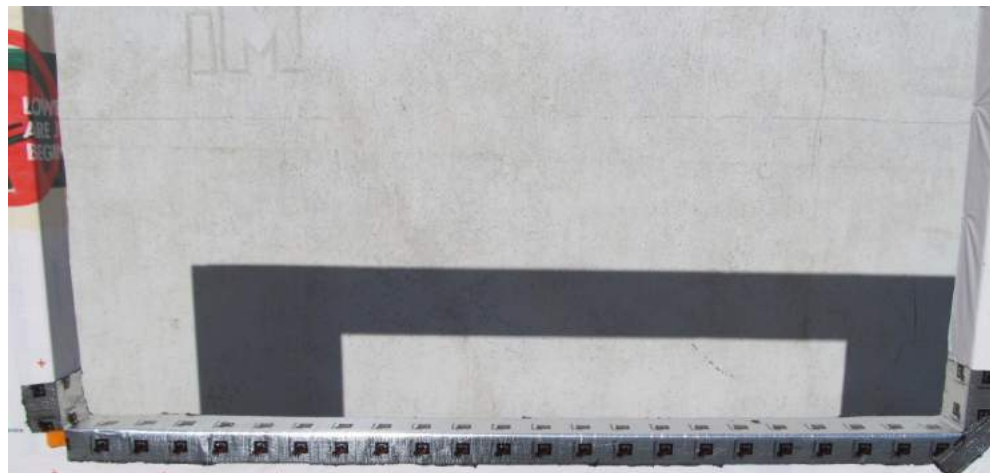
## Step 4

Sill tapes, minimum 100mm up at the sill

## **NB:**

Sill Tapes must cover all exposed/raw timber, so some instances may require for more sill tapes

This is more common on larger framing eg 140mm vs 90mm



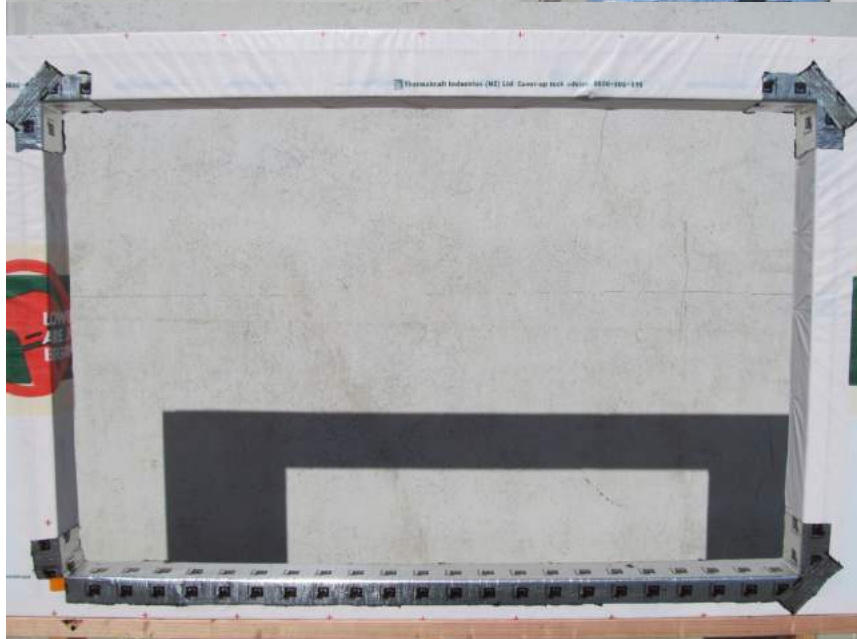
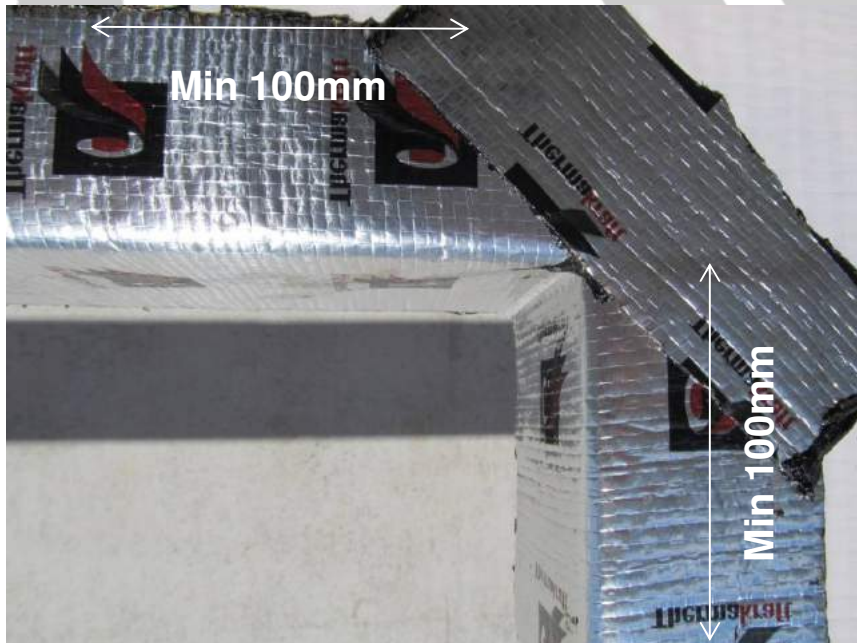
## Step 4a

Full length along the sill



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## Step 5

Head tapes, minimum 100mm from each corner

## **NB:**

100mm each end at the head

Tapes must cover all exposed/raw timber, so some instances may require for more sill tapes

This is more common on larger framing eg 140mm vs 90mm

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## Step 6

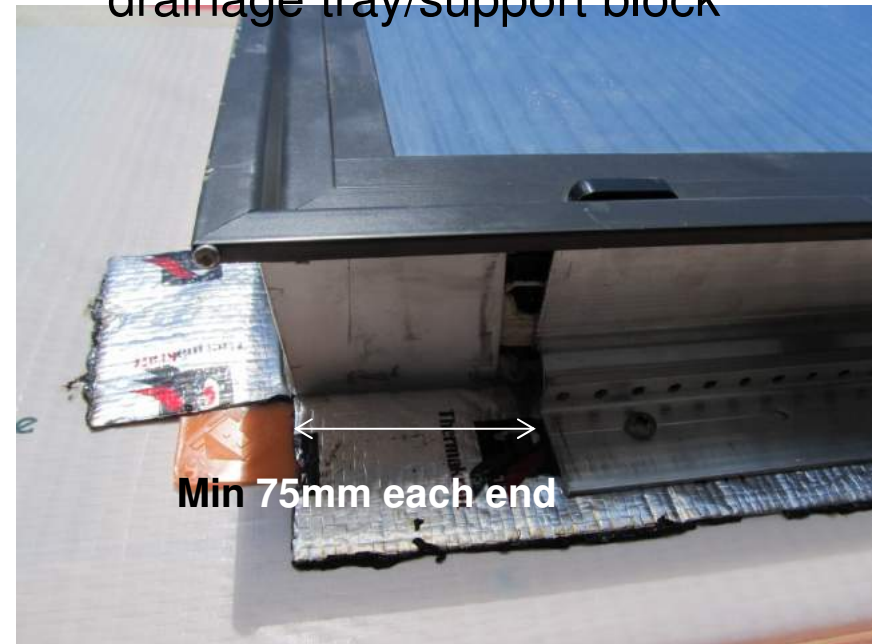
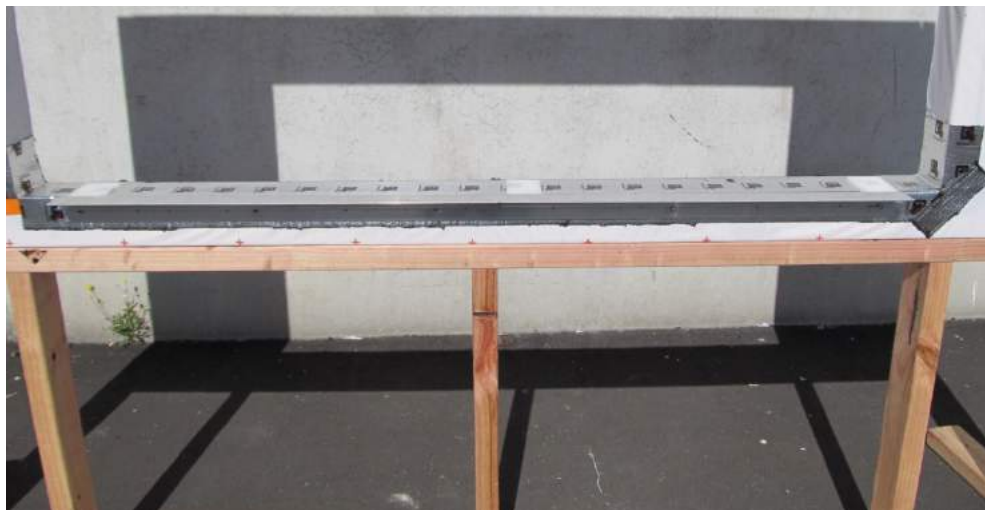
Cut Sill Support Bar

Sill Bar cut short by 75mm each end  
= 150mm in total

### **NB:**

The 150mm reduction in sill support bar width:

- Will miss the corner soakers
- Provides loading bearing on the drainage tray/support block





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## Step 7

Fit Sill Support Bar

10g x 50mm (min) Stainless Steel fixings

Maximum 300mm centres

All Fixing holes through sill support bar and into sill trimmer must be back filled prior to fixing

### **NB:**

Location Brackets MO252B used to locate sill support bar

5mm below sill trimmer

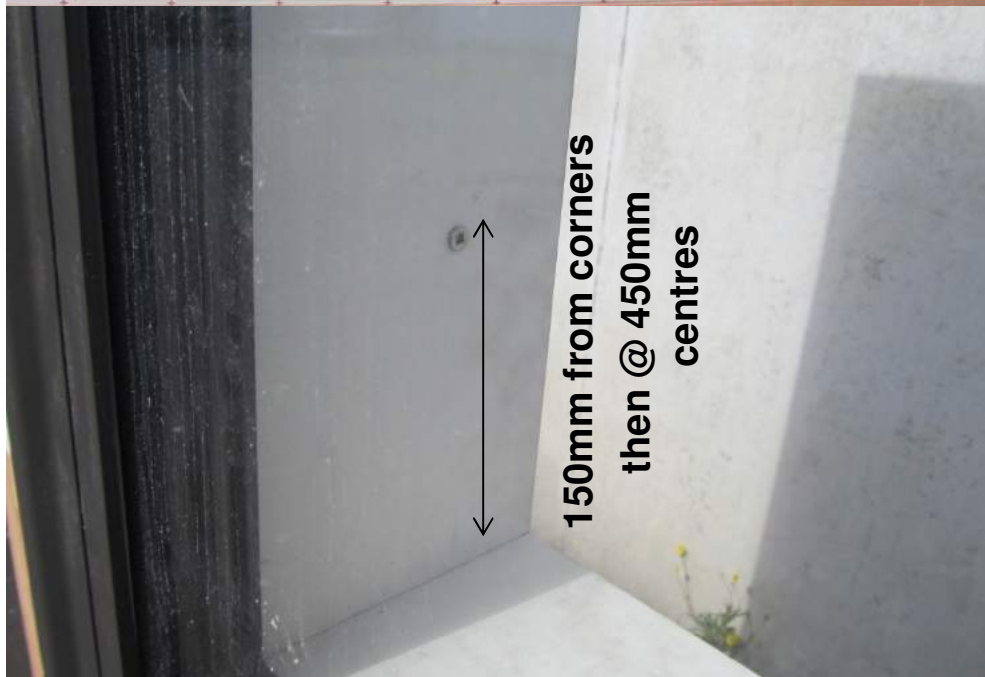
with support 5mm above sill trimmer

Location Brackets can be removed, or can remain as intermittent packers at the sill



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## Step 8

Insert aluminium joinery

### **NB:**

Location Brackets MO252B used to locate sill support bar

5mm below sill trimmer

with support 5mm above sill trimmer

Location Brackets can be removed, or can remain as intermittent packers at the sill

## Step 9

Fix aluminium joinery into position

Fixings to be min 2 x 65mm jolt head nail

or 8g x 75mm SS screw

150mm from corners

450mm centres thereafter

**NB,** each fixing point to be packed

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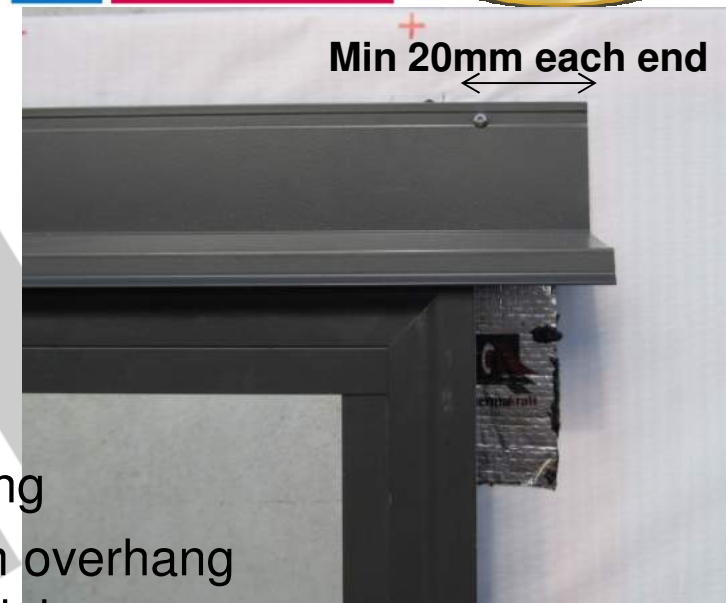
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## Step 10

Fit Head Flashing

Minimum 20mm overhang  
each end of joinery



## Step 11

Fit Head Flashing Tape over head flashing

Minimum 35mm overhang on flashing and  
50mm overhang on building under lay

**NB:**

Alternative to head flashing tapes is another  
layer of under lay over the top of the head  
flashing taken from next overlap above





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## Step 12

Fit SH014 End caps to each end of head flashing

Seal end cap to head flashing

### **NB:**

An Alternative to end caps, is an upturn, minimum 15mm

## Step 13

All 4 sides Airseal into minimum 5mm gap

PEF rod to be used

### **NB:**

PEF Rod ensures the foam does not fill the trim cavity,

Filling the trim cavity is bad practice and can cause failures

Low expansion foam recommended to ensure controlled application of internal airseal



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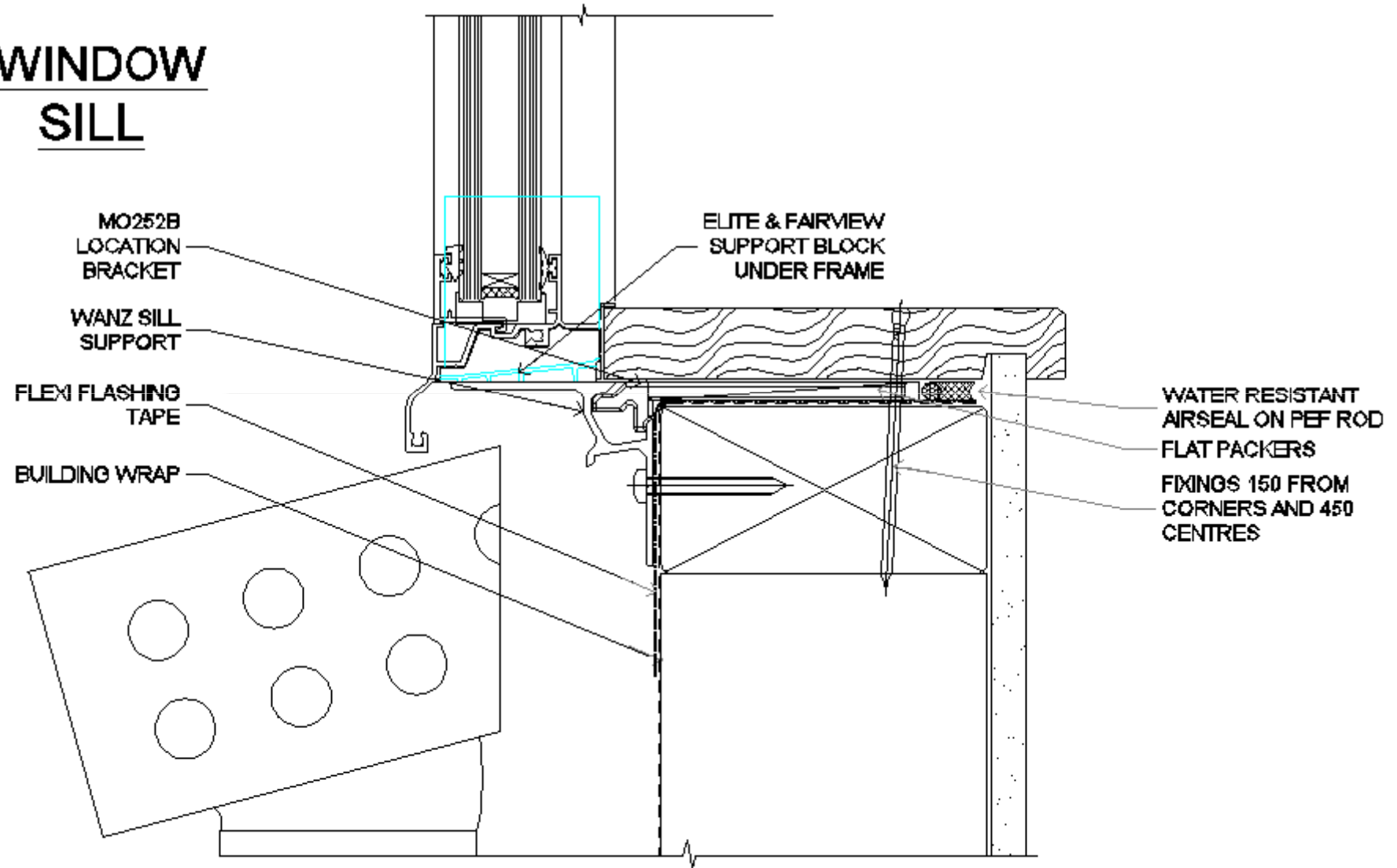
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## WINDOW SILL



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## CAVITY CONSTRUCTION COMPONENTS



00470  
WANZ 20mm CAVITY SILL  
SUPPORT BAR  
Ø 5.00mm



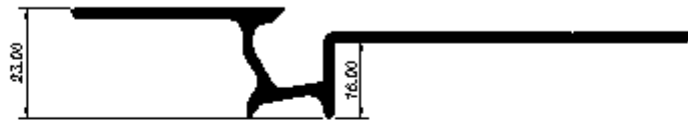
00471  
WANZ 30mm CAVITY SILL  
SUPPORT BAR  
Ø 5.00mm



00472  
WANZ 40mm CAVITY SILL  
SUPPORT BAR  
Ø 5.00mm

00474

WANZ 55mm CAVITY SILL  
FULL HEIGHT SUPPORT BAR  
Ø 5.00mm



00473  
WANZ 55mm CAVITY SILL  
SUPPORT BAR  
Ø 5.00mm



### Support Blocks



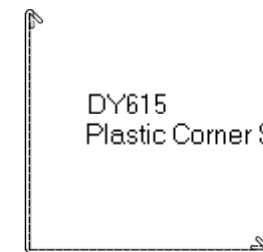
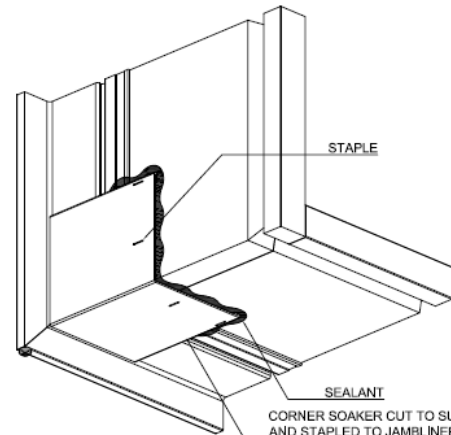
- |        |                                 |
|--------|---------------------------------|
| MO254B | Support Block A003, A004 (Pair) |
| MO250B | Condensation Tray A003 (Pair)   |
| MO251B | Condensation Tray A004 (Pair)   |
| MO253B | Condensation Tray Centre A004   |
| MO257B | Condensation Tray Centre A003   |



MO252B WANZ Support Bar Location Bracket



SH014B  
E2 Head Flashing End Cap



DY615  
Plastic Corner Soaker

DY615  
PLASTIC CORNER SOAKER



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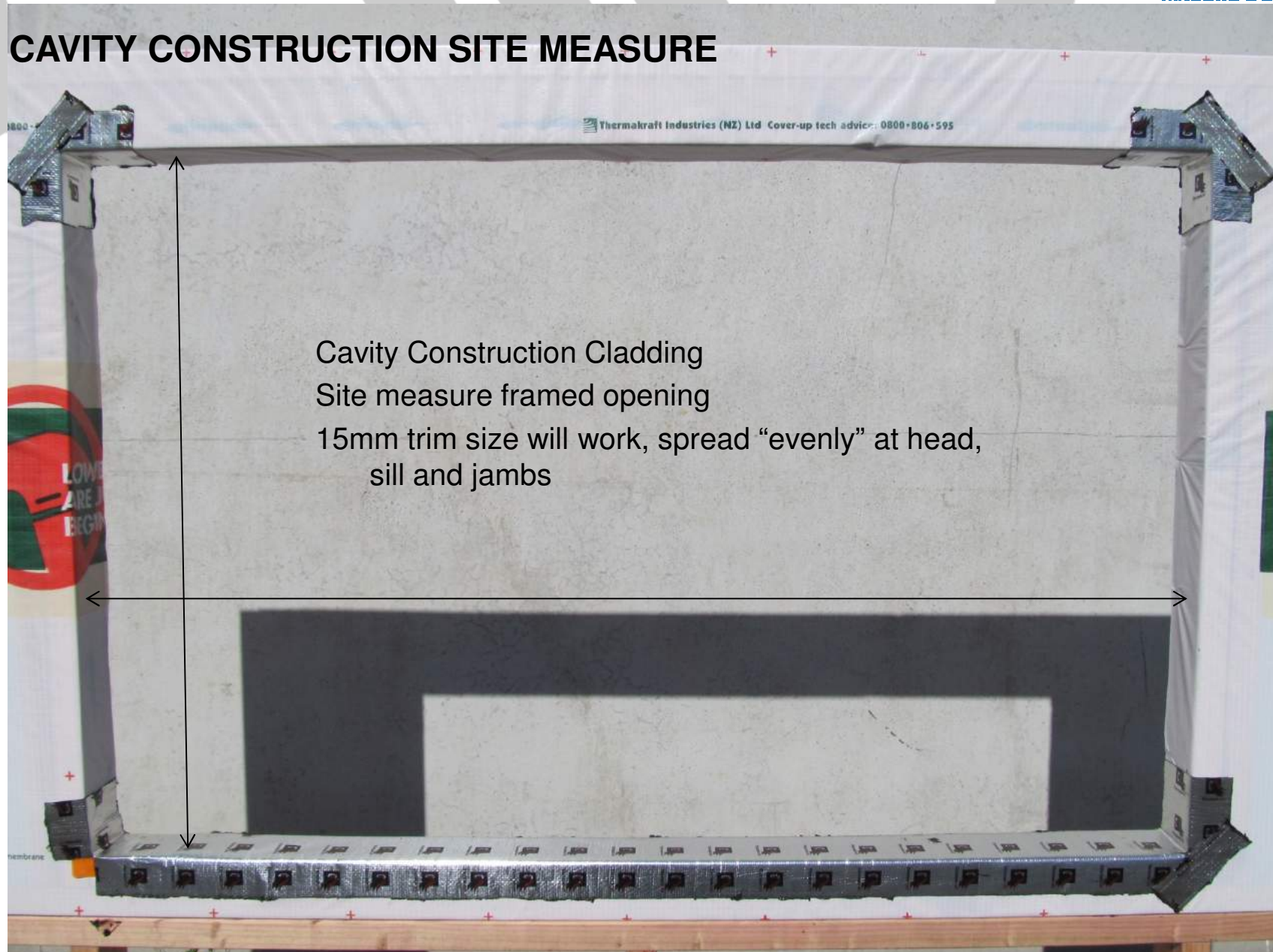
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## CAVITY CONSTRUCTION SITE MEASURE



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## COMBINED PROJECT WITH

## CAVITY CONSTRUCTION AND DIRECT FIX SITE MEASURE

### **CAUTION MIXED CLADDINGS**

Projects which mix Cavity and Direct Fix

Ensure your trim sizes are the same

Cavity Construction Sill packing should be changed to  
12mm to suit Direct Fix sill packing

The horizontal unit dimensions will be 40mm different

**NB:** Refer to the following page for Direct Fix site measures. This shows the differences that will occur in the site measure, if it is not highlighted prior to site measure.

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## DIRECT FIX SITE MEASURE

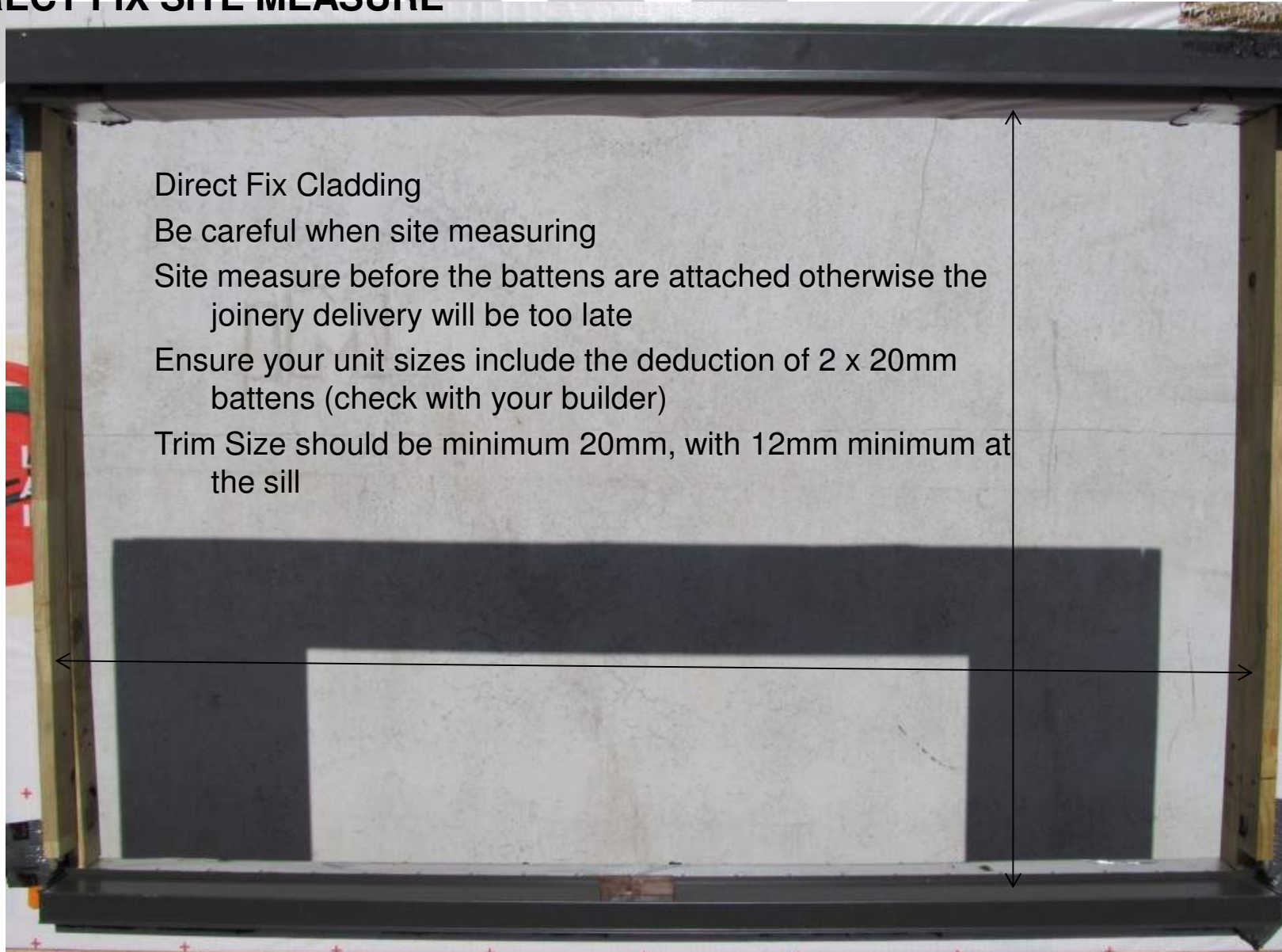
Direct Fix Cladding

Be careful when site measuring

Site measure before the battens are attached otherwise the joinery delivery will be too late

Ensure your unit sizes include the deduction of 2 x 20mm battens (check with your builder)

Trim Size should be minimum 20mm, with 12mm minimum at the sill





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## JOINERY MAINTENANCE

**GLASS** cleaning use pH neutral detergent with grit free squeegee, if specialty glass installed take extra care and contact your supplier for additional instructions.

**POWDERCOAT & ANODISED SURFACES**, should be kept free of splashes, spills, plaster and textured coatings. Full clean 6 monthly with pH neutral detergent, and do not use abrasives. Keep away from chemical cleaners which will not show damage for months.

**HANDLES, CATCHES, LOCKS, STAYS AND OPERATORS**, use pH neutral detergents not spray cleaners which contain chemicals. Do not oil keyways of locks. Monitor for corrosion  
Hinges, use pH neutral detergent, wash at same times as frames, check for wear, and tighten screws as required.

**GASKETS & WEDGES**, check gaskets quarterly, replace gaskets & wedges that appear to have shrunk, ripped or torn. Discoloured gaskets can indicate incorrect cleaners have been used.

**FINSEAL, WEATHER PILES & WEATHERSTRIPPING**, these are fluffy carpet like strips of airseal. These are subject to wear from friction of sliding panels replacement will be required over time.

**DRAINAGE SLOTS & HOLES** are important to functionality in wet weather. Do not permit painters and other maintenance crew to fill or seal these. Check insects, sand, and other debris are not clogging drain holes.

## **SLIDING, STACKING & BIFOLD** **DOOR ADDITIONAL MAINTENANCE**



Keep dirt, sand and debris from building up in the sill and track areas by vacuuming regularly, and before each wash.

If the door is not sliding smoothly, adjustment is available for sliding & stacking door rollers, refer diagram below



Roller adjustment holes at each end of panel



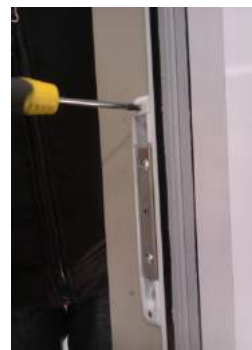
Each roller should be adjusted Separately to even out the panel

Most door rollers can be adjusted with a screwdriver through access holes in either the end or side of the sliding panel at the bottom. Be sure to lift the panel to take the weight off of the roller during roller adjustment. Refer to pictures and instructions below.

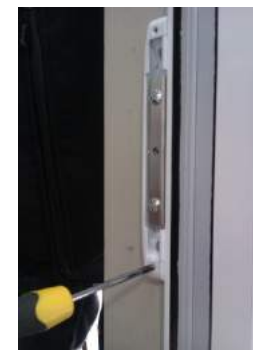


Lock Striker adjustment

After making roller adjustments, it may be necessary to also make adjustments in the lock strike placement. Most strikes may be adjusted by loosening screw fasteners, moving strike plate and retightening. Check for proper lock operation.



Striker cover removal



Striker adjustment